

L. S. G (1929) Department.

Miss SERIES.

G.O. No. 1205 P.H.

DATED 7. 5. 1929.

[Despatch Abstract.]

Drainage

Mangalore Municipal Council.
Investigation of - Ordered

DEPARTMENT.

Received 192 . Registered 192

Subject.

Drainage Scheme

Mangalore Town - Preparation.

45212



ENCLOSURES.

No. 1

Spare copies

C.No. 321
2728

Station Mangalore, Dated the 16th December 1927.

From (Name) M.R. Ry. Rao Sahib Nellikai Venkat Rao, Avl.

(Designation) Chairman, Municipal Council, Mangalore

To The Secretary to the Government of Madras

Local Self Government - Department.

Sir,

In submitting herewith a copy of the resolution of the Municipal Council on the subject of the preparation of a proper drainage scheme for this town, I request that Government may with reference to G.O.No. 1117 P.H. dated 7th June 1927 be pleased to inform the Council whether they will have such a scheme prepared and if so the probable cost of its preparation and the earliest period of time by which it might be got ready.

The favour of a very early order is requested.

Your obedient servant,

Chairman, L. C.

AN
12/12/27
S. S. P.S.

*Extract from the Proceedings of the Mangalore
Municipal Council, dated 30th June 1927.*

PRESENT:—

* * * * *

23. Read letter from Councillor Mr.K.R.Karanth, proposing to move the following resolution:-

"That in view of the insanitary condition of the --- drains and drainage and sullage in certain parts of the town and the advantages of having a scientific drainage scheme - prepared for the whole Municipal area, so that the same may be got done in instalments, the Council resolves to have -- such a scheme prepared and for this purpose requests the -- Government to intimate to the Council whether the Government will be pleased to have such a scheme prepared, the probable cost of its preparation and the earliest period of time by which it might be got ready."

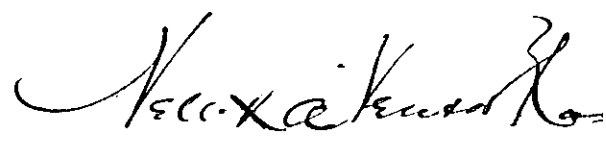
The resolution was proposed by Mr.K.R.Karanth and seconded by Mr.K.Venkat Rao.

C a r r i e d u n a n i m o u s l y .

* * * * *

/ True extract /

Municipal Office,)
Mangalore, 16-12-27.)
P.S.


Chairman, M. C.

3

ASG (PH) 10/11

17
2/12

Case 45212 from the S.H.C

Kangalore No 321 of 16.12.27

Copied
by
22/12
Exd
22/12

Subject - Drainage Scheme Kangalore

Ref. Memo No 45212-1 D.P.H of 21.12.27

Referred to the Sanitary
Engineer for remarks.

As
20/12

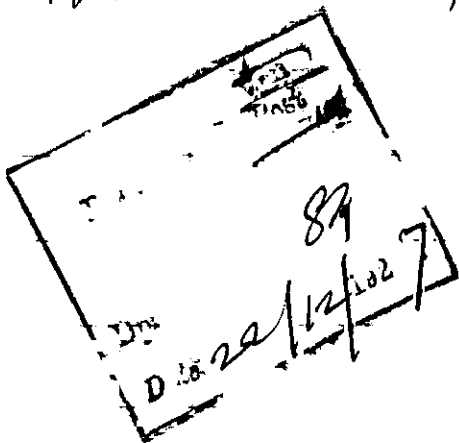
had
20.12.27

had
22.12.27

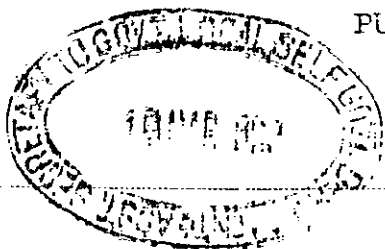
To

Mr S.L. (attn)

Copy to Mr C.E. Kangalore.



PUBLIC WORKS DEPARTMENT.



Received 192 . Registered 192 .

Subject.

40009

Mangalore drainage.

L.S.G. (P.H.) Dept

Lodged

The S.E. may be reminded if necessary
after a month

av

23/3

had

23.3.28

No.

157g.

has

26.3.28

ENCLOSURES.

No.

Spare copies

Station Triplicane, Madras Dated the 17th March 1928.

From (Name) J.S. Westerdale Esq., B.Sc., H.Inst.C.E.,

(Designation) Sanitary Engineer to Government.

To The Secretary to the Government of Madras,

LOCAL SELF GOVERNMENT (P.H. Department).

Sir,

With reference to your reminder dated 13-3-1928 on Memo.
No. 452/12-1-D.2 P.H. dated 21-12-1927 re: Mangalore drainage
scheme, I have the honour to state that I am awaiting a report
from the Deputy Sanitary Engineer, Southern Circle, who proposes
to submit it after inspecting the town.

I have the honour to be,

Sir,

Your most obedient servant,

AV/1913

PS/17-3-28.

J.S. Westerdale
17.3.28

Sanitary Engineer to Govt.

8/17/3

C. No 776-4
4.7.28

Local self gov.

DEPARTMENT

C.F. 98-

REMINDER.

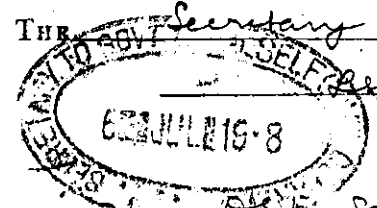
Public Health Branch.

REPLY.

10F

To THE Sanitary Engineer
to Govt.

To THE Secretary to Govt
Self Reg. Dept



The undersigned ^{p. 34} has the honour to invite
is directed to invite
invites -

attention to the communication noted in the
margin and to request that
this reminder may be returned ~~at~~ once with
information as to—

- (1) the stage at which the matter now is, and
- (2) the date by which a reply may be expected, and
- (3) the circumstances which have caused the delay.

2. It is requested that the reply to this
reminder may be sent not later than

The Dist. Southern Circle
has promised to send his
report in a few days. A
reply will be sent as soon
as possible after his report
is received.

S. W. S. D. S. D. S. D.
Sanitary Engineer
to Govt

Office Sanitary Engineer
Station Govt. Secy.
Dated 30/1/28

Signature.
Designation.

SUBJECT.

Drainage scheme. Kaveri.

Lodged
me S. E. may be reminded
a month hence if necessary
11/1/28

an
30/1/28

In rep.y, please quote
number, date and short
title.*

Received

Registered

From (Name) J.B. Westerdale Esq., 2. Do., . Inst. C.W.,

(Designation) Sanitary Engineer to Government,

Post Box: (STATION) Trillick, Lar. S.

Telegraphic Address Santander.

To The Secretary to Government,
 The Chief of Police (N.Y.) Department,
 New York City.

No. 3824, dated 25th July 1924.

Sir,

ENCLOSURES 2

SPARE COPIES

63 *rule*

1. The first of these is the fact that the Government has been unable to secure the necessary funds to carry out its policy of non-interference in the internal affairs of the country.

2. I agree with the Deputy Secretary's finding that the 1951 census is sufficient in the first place to provide a basis for estimating the number of farms. No. 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 83

3. The cost of a drainage scheme for this area
for the first 10 years of drainage interest the water-
ground level, etc. is rather very approximately at
Rs. 5 lakhs for first cost and Rs. 10,000 per year to main-
tain. If the comprehensive scheme is drawn up
however, at least of it can be carried out in a
piece-meal system. The cost of investigation will be
Rs. 2,500/- and if the detailed plans and estimates for
the scheme are to be drawn up immediately after the
investigation a special project office established
for 6 months the cost of Rs. 2000/- will be required.

1. 's waste out of the Deputy Director's office.

MS
2577

7

work between November and May as it will not be possible
to do outdoor surveying work efficiently in the monsoon
months between June and October.

I have the honour to be,

Sir,

Your most obedient servant,

J. S. Natarajan
24.7.28.

Sanitary Engineer to Govt.

anthoni-tesla

MS/24-7-28).

16/
24/7

8

Preliminary note on a Drainage Scheme for Mangalore.

The soil and subsoil of Mangalore are of porous laterite, and the different portions of the town consist of small laterite plateaus and dales. In such porous soil rain water easily soaks into the ground and emerges as springs in low lying tracts. The town is interspersed with a number of nullahs or storm water channels which run into the Netravati river to the south or the back water to the west of the town. These nullahs run mostly between houses, the sides being lined with dry laterite blocks and the bottom without any pavement. Some small cross drains similarly lined with laterite blocks and carrying the sullage of houses join these nullahs. During the monsoon months very little of sullage is visible in the town, being washed away by the heavy rains, but in the non-rainy months, the sullage water, which in the absence of a water supply, is necessarily small in quantity, soaks and stagnates in the unpaved drains and nullahs. One or two of these nullahs and drains here and there have recently been converted into masonry ones plastered with cement, but in the absence of a comprehensive drainage scheme for the town, the Council has now decided not to embark on further expenditure in this direction, before making sure that such drains will fit in with any general scheme that may be drawn up for the town.

2. The town of Mangalore is rather extensive in area being about $5\frac{1}{2}$ sq. miles, with about 50 miles of streets and roads. It is divided into 9 Wards. The entire area does not stand in need of a scientific drainage system. The eastern portion of the town consisting of Wards No. 5 (Court Ward), and No. 1 (Kodi Rail East Ward) as also the northern portion of Ward No. 9 (Kodi Rail West Ward) and the Eastern portion of Ward No. 8 (Jepou Ward) contain mainly garden houses built in terraced plots and the small quantity of sullage water from these houses is disposed of in the gardens on their own grounds. Portions of Wards No. 6 (Cantonment Ward) and No. 7 (Fort Ward) where the public offices, school and college, maidan, church, temple etc., are located can also be

eliminated, thus restricting the area to be dealt with to about a third of the whole town. The congested portions of the town requiring scientific treatment are Wards Nos. 2, 3 & 4 and portions of Wards 6, 7, 8 & 9. The population of this area as per census of 1901 is about 24,000 (as against 53,877 for the whole town) as per details below.

Part of Ward No. 9 (Kodil Bail West Ward)	3,000
Ward No. 2 (Golikat Ward)	4,517
Ward No. 3 (Central Ward)	5,029
Ward No. 4 (Market Ward)	2,781
Part of Ward No. 6 (Cartonment Ward)	2,500
" Ward No. 7 (Fort Ward)	2,000
" Ward No. 8 (Jannu Ward)	4,000
Total	23,827 or
say	24,000
	=====

3. The rain fall at Mangalore is very heavy, the average for 20 years being 126", with a maximum and minimum of 150" and 89" in that period. A closed sewerage scheme for the town will not be suitable, as, besides the cost, the sewers are likely to get overfilled during the heavy rains so common here. The scheme will have to be a combined one of open drains in streets and lanes, and of intercepting sewers to pick these up and convey the drainage to the disposal works. A main intercepting sewer will have to run along the western limit of the town parallel to the back water, and some branch sewers may also be found necessary. Adequate over flows will be provided to divert the storm water from the open drains into the existing nullahs which will also have to be improved. For the open drains, salt-glazed stoneware half pipes - a local product - can be made to required specifications and used. As regards disposal of the sewage, a suitable site for a sewage farm sufficiently high to permit of efficient drainage at all times of the year and within a reasonable distance is not readily available. Conditions prevailing on the west coast are generally not suited to this. The sewage will hence have to be

collected into a pump well, at the south west corner of the town and pumped into the Vetrayati river, (where it enters the sea) if necessary after treatment in septic tank. The dilution of the sewage by sea and river water and the washing away of it into the sea during tides, may make it inoffensive.

4. As regards the initial cost of the scheme a fair approximation of it now is difficult as the country is very undulating and there are long stretches of fields etc., in places, in the portions to be dealt with. It is only after levels are taken and the areas requiring to be drained are exactly determined, that any fairly approximate estimate of the cost can be given. On the basis of population and with due regard to the peculiar features of the locality the scheme may roughly cost about Rs.5 lakhs to instal and Rs.10,000 yearly to maintain.

5. As regards the investigation necessary, the field work will have to be got through in the course of 5 or 6 months, between November and May, as no outdoor work will be possible in the monsoon months between June and October. To get through the work in one season the investigation will cost about Rs.2,500/- as under:-

1. Sanitary Investigator on Rs.144/- per mensem for 5 months	Rs. 720
2. Sub Overseers (for taking levels) etc., to work under the Sanitary Investigator for 4 months. } @ Rs.70/- per mensem.	560
3 x 5 or 15 Lascars on Rs.12/- per mensem } for 4 months.	720
5 Lascars for 1 month.	60
T.A; trial bits, stationery and contingencies.	440
Total Rs.	2,500
	=====

(Sd.) T.S.Subrahmanya Iyer
18-7-28

Offg. Deputy Sanitary Engr.
Southern Circle.

(True Copy)

ESTIMATE FORM.—Abstract.

7 \

Quantity.	Description of Work.	Rate.	Per	Amount	Total.
1	2	3	4	5	6
	<u>MANGALORE DRAINAGE SCHEME.</u>	RS.		RS.	RS.
	The cost of special staff for the preparation of detail plans and estimates.				
2	Draftsman on Rs.80/- each for 6 months.	160	month	960	
1	Draftsman on Rs.50/- each for -do-	50	"	300	
2	Tracers on Rs.35/- each for 5 months.	70	"	350	
1*	Typist on Rs.40/- for 2 months.	40/-	"	80	
	Stationery for drawing etc.		L.S.	310	
				-----	2,000/-
					=====

1/24-7-28).

S. N. S. N. S. N.
24-7-28.
Sanitary Engineer to Govt.
95/24/7

Grand Total of Estimate ...

STATION _____

Date _____ 191 .

Executive Engineer.

L. S. G. (P.H.)

32
11/8

12

45212. From the Cane Manufacturer

NO 3218 16.12.27

31131 From the S. E. NO 38248 25/7

Drainage Scheme for Mangalore

Memo :- 31131-1 D. P.H. & 11.8.28

11/8 & 13/8

A copy of the S. E.'s
letter NO 38248 & 25.7.28 together
with the enclosures is Communi-
cated to the Cane Manufacturer.
He is requested to report whether
the Council is prepared to
bear the cost of the investigation.

Dpd by	Mr Van
by	1st class mail
	Manager
Dpd's in	MRS
13.8.1928	

Rs
108.28

10.8.28

To the Cane Manufacturer

With a copy of
(12/6-11/8)

Copy " S. E.

DEPARTMENT.

Received 192 . Registered



Subject.

Drainage Scheme for Mangalore.

44229

Government Memorandum No.31131-1 D2 P.H. dated
11th August 1928. -replied.

ENCLOSURES.

No. One.

Spare copies.

c. No. 405
28.29.

Station Mangalore, Dated the 27th October 1928.

From (Name) B. M. D Souza, Esquire.,

(Designation) Chairman-Delegate, Municipal Council,
Mangalore.

To The Secretary to the Government of Madras,

LOCAL-SELF GOVERNMENT Department.

Sir,

Referring to Government Memorandum No.31131-1 D2 P.H.
dated 11th August 1928, I have the honour to report that the
Council is prepared to bear the cost of the investigation and
the preparation of the estimates for the drainage scheme. There
are no funds to spare in the current year's budget and the
council therefore proposes to place the amount required at
the disposal of the Sanitary Engineer in April next. I
request therefore that necessary arrangements may be made to
take up the work in hand, if possible immediately.

A sum of about Rs.1,700 out of the advance made for the

NS
31/10

14

the investigation of the water supply scheme is outstanding with the Sanitary Engineer. The cost of investigation of - the drainage scheme may at present be met out of the said - amount.

A copy of the resolution is enclosed.

Your obedient servant,

B. S. Long

Chairman-Delegate.M.C.

H.D.U.27/10.

No. 15

*Extract from the Proceedings of the Mangalore
Municipal Council, dated 27th August 1928.*

PRESENT:-

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*

*

Piranti

11 Read Government Memorandum No.31131-1 D2 P. H.
dated 11th August 1928 communicating a copy of the Sanitary
Engineer's letter No.382 G 25th July 1928 with the enclosure
on the subject of drainage scheme for Mangalore and requesting
to report whether the council is prepared to bear the cost of
the investigation.

The council is prepared to bear the cost of the -----
investigation and preparation of estimates, but the payment will
be made in April next.

*

*

*

/True Extract/

B. S. Lang

Municipal Office,
Mangalore, 27-10-28.

Chairman-Delegate M.C.

ig

H.D.U.27/10.

L. 8/ (24) 10

34/51
2nd 51

From the Council to the
M 405 & 27. x. 28.

Copied
14/51

Drainage Scheme - Mafalona

Memo 51008-1 D. 4/1/28

8/1
10/2

8/2/1
8/12/3

The Chairman is informed that a sum of Rs 1713/- is outstanding with the Sanitary Engineer out of the amount placed at his disposal for the investigation of a water supply scheme. The Govt have no objection to divert the amount for the investigation of a drainage scheme for the town provided the Council undertakes to deposit any further amount required for the completion of the water supply scheme investigation in case it accepts the scheme referred.

17

to it in memo no 23383-18

P.H. dated 18.6.28. The

Chairman is requested
to report ^{early} whether the Council
agrees to the above condition

(linked file)

As
17/12
LWD
14.12.28

To the same Management
10/8/28.

Dpd. by	~~Post~~ ✓ Post ~~Message~~
Dpr's initials.	SK
Date	7/11 1929.

DEPARTMENT.

Received.....192

Registered.....192

13558



Subject.

Investigation - Drainage Scheme, Mangalore -

Requesting - may be taken in hand.

ENCLOSURES.

No.

Spare copies.....

C. No. MOS-A/28.29.

Station M a n g a l o r e, Dated the 5 t h A p r i l 192'9.From (Name) M.R.Ry. Rao Sahib Nellikai Venkat Rao, Avl.,(Designation) Chairman, Municipal Council, Mangalore.

To The Secretary to the Government of Madras,

Local Self Government Department.
Fort St. George, Madras.

Sir,

Referring to Government Memorandum No.51008-1-D.2

H/ 16-17 amb P.H. dated 4th January 1929, I have the honour to state --
 that provision of Rs. 4,500 has been made in the current
 year's budget to meet the cost of investigation of the ---
 Drainage scheme for Mangalore and the preparation of plans
 and estimates. The amount will be placed at the disposal
 of the Sanitary Engineer on receipt of orders from Government.
 It is requested that necessary instructions may be issued
 to the Sanitary Engineer to take up the work in hand -----
 immediately, if possible.

Your obedient servant,

Chairman, P. C.

P.S. -

OFFICE OF THE

Dated

1929

Hours

Minutes

TELEPHONIC MESSAGE.

From

The Manager, S.E. Office

To

The Secy, L.E. J. D. 2.

Ref. T. M. 8/29/44. Re.
The project of Mangalore drain.
Scheme of the list of priority
schemes for water supply & drainage.

The Sanitary Engineering
Commission that Mangalore
drainage scheme may be
assigned a place next to Vellore
water supply improvement in
list A.

W. 1/5

1/5

20

Office of the Sanitary Engineer to Govt.,
Triplicare, Madras.

POST COPY OF TELEPHONE MESSAGE.

From

The Manager,
Office of the Sanitary Engineer to Govt.,
Madras.

To

The Superintendent,
L.S.G. (D.2) Section, Madras.

Ref: your T.M. dated 1-5-1929.

The Vellore water supply improvements scheme referred to is the last in the priority list A maintained by Government forwarded with U.O.No.11537-1 D.2 P.H. dated 11-4-1929. The Council has agreed to place at the disposal of this Department the funds necessary for carrying out the investigation as also for preparation of plans and estimates for the scheme. This scheme is the same as item 40 in the list printed in G.O.No. 1304 P.H. dated 2-2-1929.



MANAGER

U

Let (PA) Depa

From the Cmc Mangalore 10321 of 16.12.27
 " S. E. no 3828 of 28.7.28
 46229 " Cmc Mangalore 10405 of 27.10.28

Subject:—

Mangalore Drainage Scheme

The S. E. reported that it would be sufficient in the first place to provide a comprehensive drainage scheme for certain wards of the Mangalore Municipality ^{and} ~~the~~ estimated the capital cost at Rs 5 lakhs and the annual maintenance charges at Rs 10,000. The cost of investigation of the scheme and the preparation of plans and estimates were estimated at Rs 2,500/- and Rs 2,000/- respectively. The C. M. C. Mangalore to whom the above proposals were referred ~~has agreed to provide the cost of the investigation~~ ^{reports that the} council has agreed to bear the cost of investigation and the preparation of plans and estimates and that ^{necessary} the funds ~~will~~ be placed at the disposal of the Sanitary Engineer in April next. He therefore requests that the orders may be issued for the investigation of the scheme at once. He also reports that a sum of Rs 1,700 given for the investigation of water supply scheme

22

is pending with the Sanitary Engineer.

~~In the circumstances stated by the~~

~~Cine Mangalore the investigation of~~

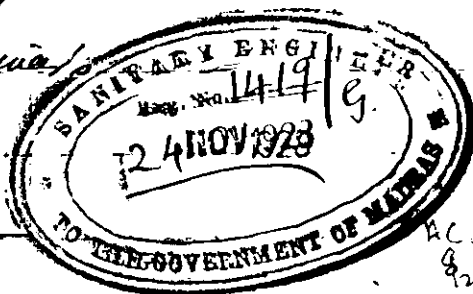
~~the Drainage Scheme may be sanctioned.~~
~~with the S.E. requested to take up the work of the entire fund are placed at his disposal.~~

~~The question of financing the Scheme may~~

~~be considered after the Sanitary Engineer's~~
~~investigation report is received.~~

~~A draft order is submitted for~~

~~approval.~~



He. The Port? Sup? may be requested

22/4 Co. to state whether he can
take up the investigation work
under the conditions specified

by the Council.

chd

marks

11/23/4

Sanitary Engr

There is a balance of Rs 1713 with

the Dept in account of the Water & E

Supply investigation which can be

diverted to the Drainage investigation

on the understanding that the Council

deposit the further amount required

for the completion of the N.S. Scheme

investigation should they accept the

Scheme which has been referred

to them for consideration by Govt.

The Drainage investigation may therefore

be approved & taken up as soon

As from 4/11/23

23/11/23

Sp 23/11

A Vile linked file

VB

as the D.S.E. concerned has a Sanitary Investigator available & with due consideration to other schemes higher on the priority list.

G.O. No. 1694 P.H.
28.11.28

[Signature]
27.11.28.

L.S.G.
4/0.



1008 NC

L.S.G. (P.H.) Department.

The Managalore Drainage Scheme is not included in the priority list published in G.O.No.1694 P.H., dated 2nd September 1927. The investigation of the scheme may however be ordered. Before doing so the Council may be asked to report about the point mentioned at A in the S.E's note on page 2 ante.

(2)

The draft below is for approval.

N.S.
12.12.28
M.T.D.
14/12

From General Revenues for

(a) Genl. Captl- ^{works} 28,600	
(b) Elem. School buildings 17,000	
(c) Town Planning purposes 67,100	
Total	1,12,700

The Budget of the Municipal Council for 1928-29 as revised with reference to the actual closing balance on 31st March 1928 is expected to close with a balance of Rs. 12,423 ~~against the minimum~~ ~~close with a~~ balance of Rs. 9550 after providing for a capital expenditure of Rs. 1,12,700/- Its surplus for under general fund is over Rs. 23,000/- a year. It can easily provide the sum for investigation of the schemes.

J.K. 20/12
V.N.
20-12-28

[Signature]

as
D.S.
12/3/28

M 3/1

2⁴

[Memom 51008-102 Pth 8 4.1.29] H 16-79

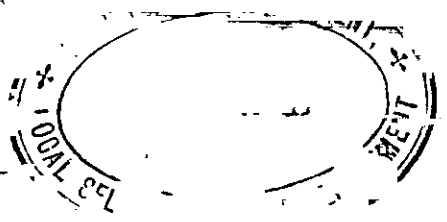
Cno 13558 From the Cne Mailpore no 405885/4 p 189

Please see the

C. m. c.'s letter on page 189.

In the circumstances stated by him
the investigation of the scheme may
be ordered.

The draft below is
for approval. It may come with the
commence of P.W.D.



16716

Rs
16.4.29
had
16.4.29

M 49

P. W. D. no.

Loguom 13538-102 Pth
49/4

Memom 13, 2/18/4

Dna d. d. 28

The draft. and may be accepted
+ his file returned to the D. S. G. (P. W.)
Dept

8089c
W

Will Day
23/4/29

259 (11) 20

259 (11) 20
259 (11) 20

P. W. D. no 8089c/29-1
24/4/29.
nc 27/4
Ref 12

The P.E. has now stated that

P/97

The scheme may be assigned a place below the Vellore water supply improvement scheme in the priority list. A ~~two~~ sentence has been added to that effect in the draft. The order may now issue.

44259.

He
3.5.27

ltd
3.5.28

M of

1 7 1/2
5/5

27

Ms.

118
3/5 had
3.5.28

To the Sanitary Eng^r ✓
 2^d Op. Lt. ✓
 7, Cmc' Maudslayi ✓
 (Spare copy)
 1881

637

Del. by Van
Post
Messenger

Dep't. Initials. 87

Date 5/5/1929.